

Fig. 1

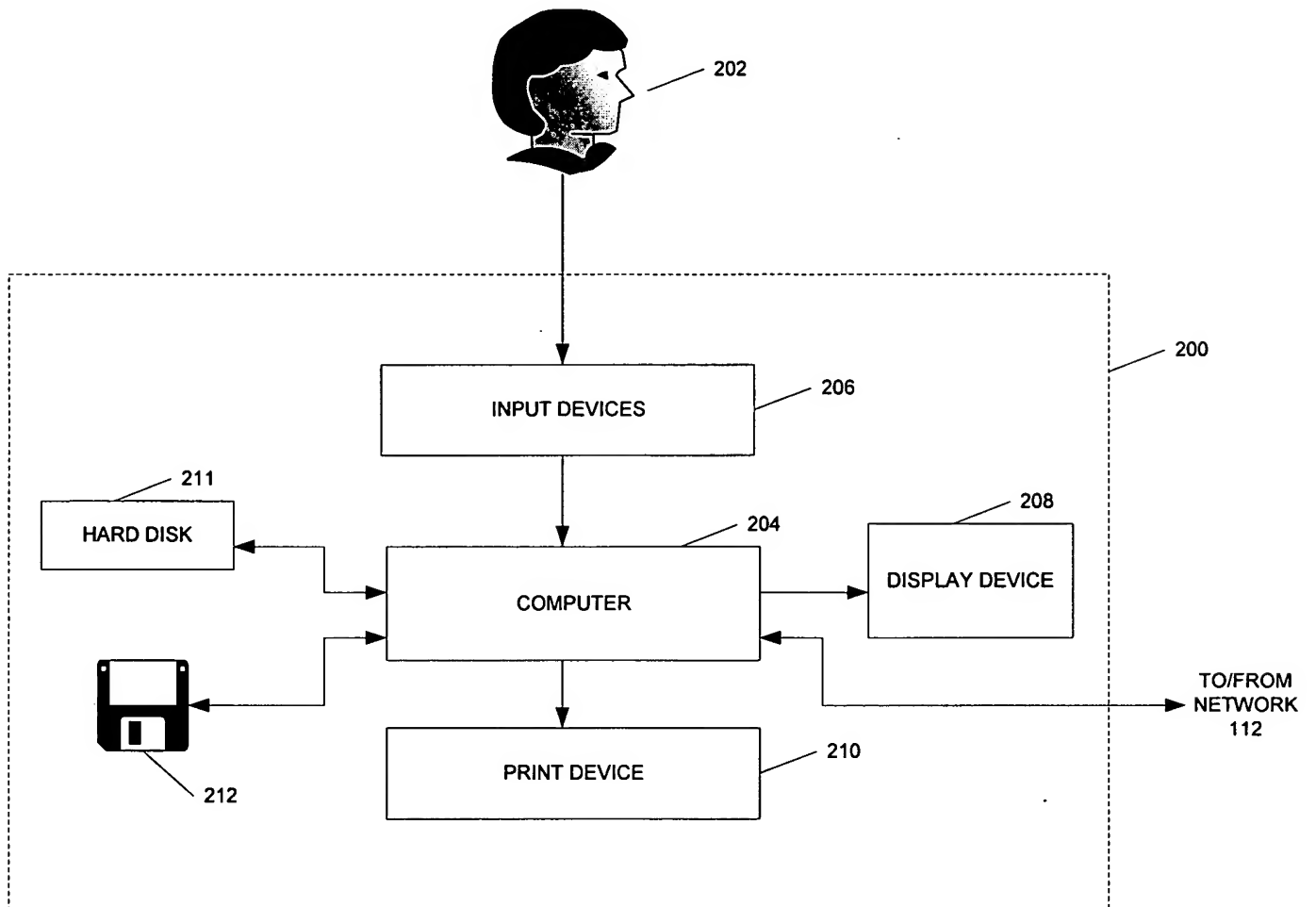


Fig. 2

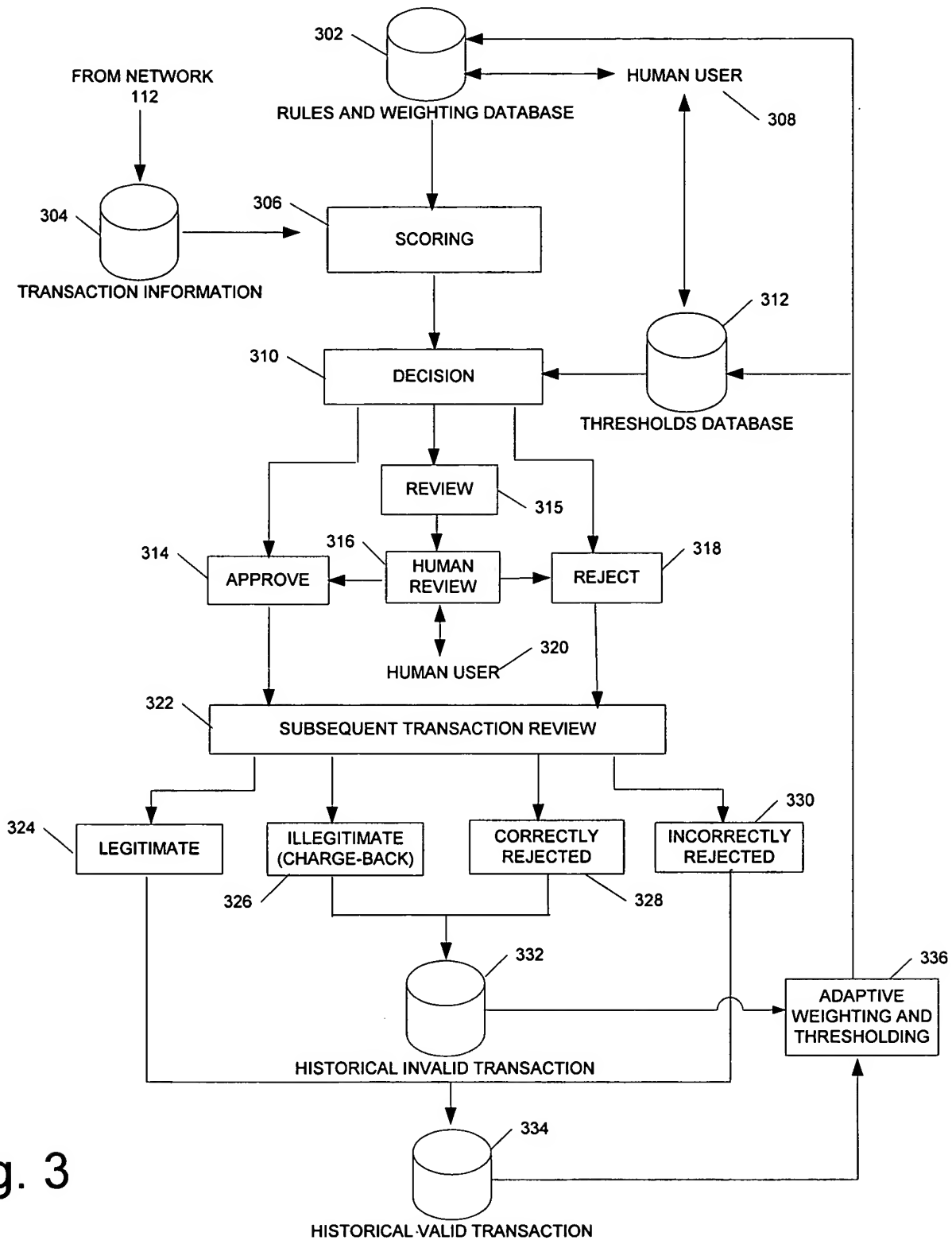


Fig. 3

RULE NUMBER	EXPRESSION	WEIGHT
1	If CREDIT_CARD_BILLING_ADDRESS <> PRODUCT_SHIPPING_ADDRESS THEN BAD	1
2	If TODAY'S_DATE > CREDIT_CARD_EXPIRATION_DATE THEN BAD	6
.	.	.
.	.	.
.	.	.
12	If CREDIT_CARD_NUMBER IN (list of bad card numbers) THEN BAD	4
13	If CUSTOMER_IP_ADDRESS IN (list of good IP addresses) THEN GOOD	-2
14	If CREDIT_CARD_NUMBER IN (list of good card numbers) THEN GOOD	-4
.	.	.
.	.	.
.	.	.

FIG. 4

RULE NUMBER	NUMBER OF VALID TRANSACTIONS	NUMBER OF INVALID TRANSACTIONS
1	205	120
2	20	411
.		
.		
.		
12	30	300
13	241	123
14	320	45
.		
.		
.		

FIG. 5

Interface Store Client ID 160 Allast Patho User Settings Role: Clear Commerce  
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Clear Commerce

Orders | Reports | Risk Management | Administration

Sign Off | Help

### FraudShield™ Rule Management

Select	Seq.#	Rule Name	Rule ID	Action	Alert	Active	Weight
<input type="checkbox"/>	1	BlockEmailAddress	9	Review	Yes	Yes	2.5
<input checked="" type="checkbox"/>	2	BlockCardNumber	12	Review	No	Yes	0.3
<input checked="" type="checkbox"/>	3	IPDeniedCreditCardMaxTimes	1	Reject	No	No	1.6
<input checked="" type="checkbox"/>	4	InvalidEmailAddress	2	Reject	No	No	1.4
<input checked="" type="checkbox"/>	6	InvalidCreditCardNum	4	Reject	No	No	2.7
<input checked="" type="checkbox"/>	7	InvalidExpDate	5	Reject	No	No	1.3
<input checked="" type="checkbox"/>	24	AcceptShippingName	24	Accept	No	No	1.8
<input checked="" type="checkbox"/>	26	SourceDeniedCreditCardMaxTimes	26	Reject	No	No	1.5
<input type="checkbox"/>	32	CVV2 DoesNotMatch	29	Review	No	No	0.5
<input checked="" type="checkbox"/>	33	test2	33	None	No	No	0.5
<div>Select All Deselect All</div>							
<div>Activate Deactivate</div>							
<div>Add Delete</div>							

600

604

Settings  
Rules  
Lists  
Default Values  
Risk Services  
Veloques  
Transactions  
Fraudulent  
Chargeback  
Review

Fig. 6a

**CHARTECMMERCE**

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**FraudShield™ Rule Editor**

Settings  
Rules  
Default Values  
Risk Services  
Velocities

Transactions  
Fraudulent  
Chargeback  
Review

Rule ID:  New >

Rule Name:  ~ 606

Active Rule: ☐ Pre-Process: ☒

Prerequisite:  None

Weight:  ~ 622

Expression:

624

Attribute:  Select Attribute

Operator:  Select Operator

608

610

612 ~ 614 ~ 616

Value:  Calculated Value:  Selected Value:  Selected List:

618

Add to Rule >>

Action:  None

Risk Service:  None

Merchant Message:

Action On Missing Value:  None

Risk Service On Missing Value:  None

Storefront Message:

Select Attribute:  Add Reset

Select Attribute:  Add Reset

Send notification e-mail to:

Submit Reset

600

My Computer

Fig. 6b

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**FraudShield™ Rule Editor**

Rule ID	<New>	Active Rule	<input type="checkbox"/>
Rule Name	DuplicatePurchase	Process Code	Pre-Process
Prerequisite	None	Weight	

**Attribute**    IsDuplicatePurchase    **Expression**  
= (Equal To or IN)    (\$IPAddress,\$CardNumber,  
\$CardExpDate,\$TransTotal,  
\$DuplicateBlockDuration)  
(True)

**Value**    True    **Selected List**    Add to Rule >>    And    Or    Not    Reset

**Action**    None    **Action On Missing Value**    None    **Risk Service**    None    **Risk Service On Missing Value**    None

**Merchant Message**    **Storefront Message**

**Send notification e-mail to**    **Select Attribute**    Add    Reset    **Select Attribute**    Add    Reset

**Submit**    **Reset**

600    626    My Computer

Fig. 6c



Interface Store Client ID: 16 - Alias: Keith - User Settings - Relayed - Shared

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Settings

Rules

Lists

Default Values

Risk Services

Velocities

Transactions

Fraudulent

Chargeback

Review

Orders

Reports

Risk Management

Administration

Sign Off

Help

FraudShield™ Rule Management

Select

Seq #

Rule Name

Rule ID

Action

Alert

Active

Weight

<input type="checkbox"/>	1	BlockEmailAddress	9	Review	Yes	Yes	2.5
<input type="checkbox"/>	2	BlockCardNumber	12	Review	No	Yes	0.3
<input type="checkbox"/>	3	IPDeniedCreditCardMaxTimes	1	Reject	No	No	1.6
<input type="checkbox"/>	4	InvalidEmailAddress	2	Reject	No	No	1.4
<input type="checkbox"/>	6	InvalidCreditCardNum	4	Reject	No	No	2.7
<input type="checkbox"/>	7	InvalidExpDate	5	Reject	No	No	1.3
<input type="checkbox"/>	24	AcceptShippingName	24	Accept	No	No	1.8
<input type="checkbox"/>	26	SourceDeniedCreditCardMaxTimes	26	Reject	No	No	1.5
<input type="checkbox"/>	32	GVV2_DoesNotMatch	29	Review	No	No	0.5
<input type="checkbox"/>	33	test2	33	None	No	No	0.5
<input type="checkbox"/>	34	DuplicatePurchase	34	Reject	No	No	2.0

Select All

Deselect All

Activate

Deactivate

Add

Delete

602

600

628

Fig. 6d